

BACTERIA BRAIN

BY

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Program Notes

Bacteria Brain is a musical depiction of what I imagine the fight between competing bacterial organisms to look like. The flora which populates this manuscript paper consists of, among other peripheral elements, two majority musical life forms. The first is a simple ascending minor third whose registral origins are the depths of the orchestra. The second is a constantly permuting pattern of intervals growing out of an initial four note motive consisting of a descending major second, retreating ascent of a major second, and a descending perfect fourth. This element finds home in a higher range. After an expository introduction that shows these characters evolving from a common musical ancestor, the competition begins, unfolding in front of a dramatic backdrop of string music which cascades at a hardly perceptible rate. The piano and percussion grow the minor third motive while developing a symbiotic relationship with the brass, whose sustained notes bridge the periods of dormancy between piano and percussion outbursts. The woodwinds serve as the substrate on which the secondly mentioned motive flourishes. Each of these two elements becomes stronger and more insistent, invading the registers claim-staked by the other, resulting in an ever increasing textural density. This process blurs the boundaries between musical fore-, middle-, and backgrounds, allowing for a listening experience that varies greatly between audience members. The cacophonous climax represents the apex of this struggle for survival. Both organisms become so overpopulated that neither can survive. What follows is a barrenscape on which the death throes of each musical bacterium are witnessed.

Peformance Time ca. 8'

Instrumentation:

Piccolo
Flute 1 & 2
Oboe 1 & 2
English Horn
Bb Clarinet 1 & 2
Bb Bass Clarinet
Bassoon 1 & 2
Contrabassoon
French Horn 1, 2, 3, 4
Bb Trumpet 1, 2, 3
Trombone 1 & 2
Bass Trombone
Tuba
Timpani
Percussion 1: Vibraphone, Low Gong
Percussion 2: Marimba, Bass Drum
Percussion 3: Tubular Bells, Thunder Sheet, Glockenspiel
Piano
Strings

Bacteria Brain

C Score

Danny Hansen

♩ = 80

⑤

⑩

Piccolo

Flute 1

Flute 2

Oboe 1

Oboe 2

English Horn

Clarinet in B♭ 1

Clarinet in B♭ 2

Bass Clarinet in B♭

Bassoon 1 & 2

Contrabassoon

Horn in F 1 & 3

Horn in F 2 & 4

Trumpet in B♭ 1

Trumpet in B♭ 2 & 3

Trombone 1 & 2

Bass Trombone

Tuba

Timpani

Percussion 1

Percussion 2

Percussion 3

Piano

♩ = 80

⑤

⑩

Violin I

Violin II

Viola

Violoncello

Double Bass

poco rit. 15 20 ♩ = 66

13

Fl. 1 *pp*

Fl. 2 *pp*

Ob. 1 *mf* *pp*

Ob. 2 *mf* *pp*

Cl. 1 *mf*

B. Cl. *mf* *pp*

Hn. 1 & 3 *p* *mp* *p*

Hn. 2 & 4 *p* *mp*

Tpt. 1 *mf*

Tpt. 2 & 3 *mf*

Tbn. 1 & 2 *mp* *mf* *pp*

B. Tbn. *mf* *pp*

Tba. *mf* *pp*

Timp. *mf* *p* *mf*

poco rit. 15 20 ♩ = 66

Vln. I *mf* *f* *p*

Vln. II *mf* *f* *p*

Vln. II *mf* *p*

Vln. II *mf* *p*

Vla. *p* *mf* *p* *p* *mp* *p*

Vla. *p* *mf* *p* *p* *p* *mp*

Vc. *p* *mf* *pp* *mp* *p*

Vc. *p* *mf* *pp* *mp* *p*

Db. *mf* *pp* *pp* *mp* *pp*

2

24

25

30

Cl. 1

Cl. 2

Cbsn.

Hn. 1 & 3

Hn. 2 & 4

Tbn. 1 & 2

B. Tbn.

Tba.

Timp.

Pno.

25

30

Vln. I

Vln. II

Vla.

Vc.

Db.

35

Subito

♩ = 96

40

Fl. 1

Fl. 2

Ob. 1

Ob. 2

Eng. Hn.

Cl. 1

Cl. 2

Pno.

35

Subito

♩ = 96

40

Vln. I

Vln. II

Vc.

Db.

41

45

Fl. 1 *pp* *mp* 6

Fl. 2 *pp* *mp* 5

Ob. 1 *f* *p* *f* *p* *f* *p* *pp* *mf*

Ob. 2 *f* *p* *f* *p* *f* *p* *pp* *f*

Eng. Hn. *f* *p* *f* *p* *f* *p* *pp*

Cl. 1 *mf*

Cl. 2 *f*

Bsn. 1 & 2 *mf*

Cbsn. *f*

Hn. 1 & 3 *mf* *p*

Tpt. 1 *mf* *p*

Tbn. 1 & 2 *mf* *f* *mp* *mf* *p*

B. Tbn. *f* *mp* *mf*

Tba. *f* *mp* *mf*

Pno. *fff* *l.v.*

Ped.

45

Vln. II *f* *p* *f* *p* *f* *p* *pp*

Vla. *mf* *f* *p*

Vc. *f* *p* *f*

Db. *f* *p* *f*

61 Lv.

Pno.

loco

p

mf

f

65

Vln. I

ppp

ppp

mp

ppp

ppp

Vln. II

mp

ppp

mp

ppp

==

66

Hn. 1 & 3

a2

mf

Perc. 1

Vibraphone

f

Perc. 2

Marimba

f

Perc. 3

Tubular Bells

f

mf

Pno.

ff

f

mf

Vln. I

ppp

mp

ppp

ppp

Vln. II

mp

ppp

mp

Vla.

p

mp

p

mp

70

Picc. *f* *mf* *f* *p* *f* *mp* *f* *mf*

Hn. 1 & 3

Perc. 1 *p*

Perc. 2

Perc. 3

Pno. *p*

70

Vln. I *ppp* *mp* *ppp* *ppp* *mp*

Vln. II *mp* *ppp* *mp* *mp*

Vla. *p* *p*

==

75

Picc. *p* *mf* *p* *pp* *f*

Cl. 1 *mf*

Cl. 2 *mf*

Hn. 1 & 3 *mp*

Perc. 1

Perc. 2 *p* *f* *ff*

Perc. 3 *ff*

Pno. *p* *f* *fff*

75

Vln. I *ppp* *mp* *ppp* *ppp* *mp*

Vln. II *ppp* *mp* *ppp*

79 **(80)**

Picc. *p* *f* *p* *mp* *mf* *mp* *mf* *ff*

Cl. 1

Cl. 2 *mf*

Hn. 1 & 3 *pp* *pp*

Perc. 1

Perc. 2

Perc. 3

(80)

Vln. I *ppp* *mp* *p*

Vln. II *ppp* *mp*

==

84 **(85)**

Picc. *pp* *f* *p* *sfz* *p*

Fl. 1 *f* *p*

Cl. 1

Cl. 2

Hn. 1 & 3 *f* *pp* *p*

Hn. 2 & 4 *p* *a2*

Perc. 1 *f* *mp*

Perc. 2 *f* *p*

Perc. 3 *f* *p*

Pno. *fff* *f* *mf*

(85)

Vln. I *p* *mf* *p*

Vln. II *p* *mf*

88

Picc. *mf* *p* *f* *p* *mf* *p* *f* *p*

Fl. 1 *f* *p* *mf* *p* *f* *p* *mf* *p* *mf* *p*

Hn. 1 & 3 *mf* *p* *p* *mf* *p* *p*

Hn. 2 & 4 *mf* *p* *mf* *p* *p*

Perc. 1 [Vibraphone] *mp*

Perc. 2 [Marimba] *f* *mp*

Perc. 3 [Tubular Bells] *f* *mp*

Pno. *ff*

90

Vln. I *p* *mf* *p* *p* *mf* *p*

Vln. II *mf* *p* *mf* *p*

==

93

Picc. *f* *mp* *ff*

Fl. 1 *p* *f* *mp* *f* *mp* *ff* *mf*

Cl. 1 *mf*

Hn. 1 & 3 *mf* *f*

Hn. 2 & 4 *mf* *f*

95

Vln. I *mf* *p* *mf* *p*

Vln. II *mf* *p* *ppp*

97

Picc. *p* *f*

Fl. 1 *p*

Cl. 1 *mf* *f*

Cl. 2 *mf* *f*

Hn. 1 & 3 *mp* *p* *ff*

Hn. 2 & 4 *mp* *p* *ff*

Tpt. 1 *pp* *ff*

Tpt. 2 & 3 *pp* *ff*

Tbn. 1 & 2 *mp* *ff*

B. Tbn. *mp* *ff*

Tba. *mf* *ff*

Timp. *ppp* *ff*

Perc. 1 *f* *f*

Perc. 2 *f*

Perc. 3 *f*

Pno. *f* *fff*

100

Vln. I *p* *mf* *mp* *mp*

Vln. II *p* *mp* *f* *mp*

Vla. *mf* *mp*

Vla. *f* *fff*

Vc. *f* *fff*

Db. *f* *fff*

101

Picc. *p f* *p f* *p* *mf* *f* *p*

Fl. 1 *f* *p* *f* *p* *f* *p*

Cl. 1 *tr*

Cl. 2 *3* *3* *3*

Hn. 1 & 3 (a2) *p* *pp* *ff*

Hn. 2 & 4 (a2) *p* *pp* *ff*

Perc. 1 *Vibraphone* *mf* *mp* *p*

Perc. 2 *Marimba* *mf* *p* *mp* *p*

Perc. 3 *Tubular Bells* *mf* *mp*

Pno. *f* *mf* *mp*

8th

105

Vln. I *f* *mp* *f* *mp*

Vln. II *f* *mp*

Vla. *mf* *mp*

Vc. *pp* *pp*

106

Picc.

mf

mp

3

f

mp

3

p

f

mp

3

f

p

Fl. 1

mf

p

f

p

mf

p

f

p

mf

mp

Fl. 2

f

p

f

p

f

p

mf

p

f

p

Ob. 1

f

p

f

p

Ob. 2

f

p

Hn. 1 & 3

(a2)

p

mf

p

1

f

Perc. 1

3

f

2

f

Perc. 2

mf

f

p

f

Perc. 3

f

2

f

Pno.

f

fff

fff

6

3

2

3

Vln. I

f

mp

senza sord.

mp

f

Vln. II

senza sord.

mp

f

mp

senza sord.

f

Vla.

ppp

mf

con sord.

mp

f

110

110

111

Picc. *f* *p* *mf* *p* *f* *mf* *5*

Fl. 1 *mf* *mp* *f* *p* *f* *mf* *3* *ff*

Fl. 2 *mf* *mp* *f* *mp* *f* *p* *mf*

Ob. 1 *mf* *mp* *f* *p* *mf* *p* *3* *f*

Ob. 2 *f* *p* *f* *mp* *mf* *p* *f* *p* *mf*

Eng. Hn. *f* *p* *f* *p* *f* *p* *3*

Cl. 1 *ff*

Hn. 1 & 3 *mp* *p*

Hn. 2 & 4 *f* *f* *p* *p*

Tbn. 1 & 2 *p*

B. Tbn. *p*

Tba. *p*

Perc. 1 *Vibraphone* *p*

Perc. 2 *Marimba* *mf* *p* *f*

Perc. 3 *Tubular Bells* *p* *f*

Pno. *fff*

Vln. I *mf* *mf* *ff* *mf* *ff*

Vln. II *mf* *ff*

Vla. *f* *ppp* *senza sord.* *p* *3* *3*

Vc. *p*

115

Picc. *f* *ff* *mf* *ff* *f* *ff*

Fl. 1 *mf* *ff* *ff* *ff*

Fl. 2 *mp* *f* *ff* *fff sempre*

Ob. 1 *mp* *f* *ff*

Ob. 2 *mp* *f* *ff*

Eng. Hn. *mf* *p* *f* *p* *mf* *mp* *f*

Cl. 1 *f*

Cl. 2 *ff*

Hn. 2 & 4 *p*

Tpt. 1 *p*

Tpt. 2 & 3 *p*

Tbn. 1 & 2 *f*

B. Tbn. *f*

Tba. *f*

Perc. 1 *f* *f*

Perc. 2 *p* *f*

Perc. 3 *f*

Pno. *ff*

115

Vln. I *mf* *ff* *mf*

Vln. II *ff* *mf*

Vla. *mp* *mf*

Vc. *mf* *mf* *mp*

118

Picc. *fff* sempre

Fl. 1 *fff* sempre

Fl. 2

Ob. 1 *fff* sempre

Ob. 2 *fff* sempre

Eng. Hn. *ff*

Cl. 1

Cl. 2

Hn. 1 & 3 *p*

Hn. 2 & 4 *p*

Tbn. 1 & 2 *p*

B. Tbn.

Tba. *p*

Perc. 1 (Vibraphone) *mf*

Perc. 2 (Marimba) *mf*

Perc. 3 (Tubular Bells) *mf*

Pno. *f*, *mf*, *mp*, *p*

Vln. I *mf*, *ff*

Vln. II *mf*, *mp*

Vla. *ff*, *mf*

Vc. *mp*, *f* sempre

Db. *f* sempre

120

The image displays a page from a musical score, likely for a symphony, featuring various instruments. The score is divided into two systems, with measures 124 and 125 marked. The instruments listed include Piccolo (Picc.), Flute 1 (Fl. 1), Flute 2 (Fl. 2), Oboe 1 (Ob. 1), Oboe 2 (Ob. 2), English Horn (Eng. Hn.), Clarinet 1 (Cl. 1), Clarinet 2 (Cl. 2), Bass Clarinet (B. Cl.), Bassoon 1 & 2 (Bsn. 1 & 2), Contrabassoon (Cbsn.), Horn 1 & 3 (Hn. 1 & 3), Horn 2 & 4 (Hn. 2 & 4), Trumpet 1 (Tpt. 1), Trumpet 2 & 3 (Tpt. 2 & 3), Trombone 1 & 2 (Tbn. 1 & 2), Bass Trombone (B. Tbn.), Tuba (Tba.), Percussion 1 (Perc. 1), Percussion 2 (Perc. 2), Violin 1 (Vln. I), Violin 2 (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (Db.). The notation includes complex rhythmic patterns, dynamics (f, mp, p, mf), and articulation (detaché, fff sempre). The score is written in a standard musical notation with a key signature of one sharp (F#) and a time signature of 4/4.

127

Picc.

Fl. 1

Fl. 2

Ob. 1

Ob. 2

Eng. Hn.

Cl. 1

Cl. 2

B. Cl.

Bsn. 1 & 2

Cbsn.

Hn. 1 & 3

Hn. 2 & 4

Tpt. 1

Tpt. 2 & 3

Tbn. 1 & 2

B. Tbn.

Tba.

Timp.

Perc. 1

Perc. 2

Perc.

Pno.

130

Vln. I

Vln. II

Vla.

Vc.

Db.

130

[illegible]

This musical score page contains measures 155 through 160. The instruments and their parts are as follows:

- Fl. 1 & 2:** Flutes 1 and 2. Both play a melodic line starting in measure 159, marked *mf* and then *p*.
- Ob. 1 & 2:** Oboes 1 and 2. Both play a melodic line starting in measure 159, marked *mf* and then *p*.
- Cl. 1 & 2:** Clarinets 1 and 2. Both play a melodic line starting in measure 155, marked *mf* and then *pp*.
- B. Cl.:** Bass Clarinet. Plays a melodic line starting in measure 155, marked *mf* and then *pp*.
- Bsn. 1 & 2:** Bassoons 1 and 2. Both play a melodic line starting in measure 155, marked *p*, *mf*, and *pp*.
- Cbsn.:** Contrabassoon. Plays a melodic line starting in measure 155, marked *p*, *mf*, and *pp*.
- Perc. 1:** Vibraphone. Plays a melodic line starting in measure 159, marked *f*.
- Mar.:** Marimba. Plays a melodic line starting in measure 155, marked *f*.
- Perc.:** Thunder Sheet. Plays a melodic line starting in measure 155, marked *f*.
- Pno.:** Piano. Plays a melodic line starting in measure 155, marked *mf* and then *f*.

[illegible]

